



- (51) **International Patent Classification:**
F03B 17/06 (2006.01) *F03B 13/12* (2006.01)
F03B 3/12 (2006.01)
- (21) **International Application Number:**
PCT/US2011/067648
- (22) **International Filing Date:**
28 December 2011 (28.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
1022103.4 30 December 2010 (30.12.2010) GB
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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
1 November 2012

(54) **Title:** METHOD AND APPARATUS FOR ENERGY GENERATION

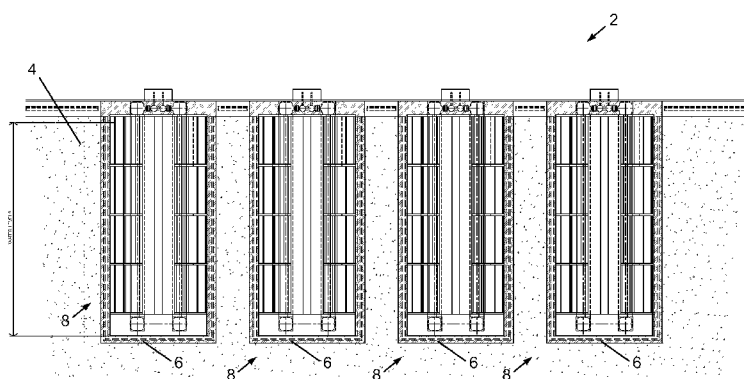


Fig 1

(57) **Abstract:** A system for the generation of energy from the flow of water in a body of water is provided, the system comprising a support assembly extending across at least a portion of the body of water; a generator assembly mounted in the support assembly, the generator assembly comprising a first rotor assembly and a second rotor assembly, each rotor assembly comprising a vertical hub rotatable about a vertical axis and a plurality of vertical blades extending radially from the hub, the first and second rotor assemblies being arranged such that the volume swept by the blades of the first rotor assembly overlaps the volume swept by the blades of the second rotor assembly. The system may be used to generate energy, for example electricity. In addition, the system may be used to control the level of water on the upstream side of the installation, for example in the cases of flooding.

